Data Sheet
Fujitsu PRIMERGY TX120 S2 Server

The leading office server: space saving, energy saving, whisper-quiet.

PRIMERGY TX industry standard tower servers: efficient, rock solid, record-breaking performance. PRIMERGY TX servers benefit from over 20 years pioneering work in the field of Green IT. That is how TX servers reach industry – leading performance per watt ratios, lowering the environmental impact and running costs. TX servers can easily be managed via the free of charge PRIMERGY ServerView Suite, saving IT admin costs. That's efficient performance. Our made-to-measure service packages take care of your system every step of the way. Rest assured, PRIMERGY TX servers are put through 5000 boot cycles - that's rock solid performance. PRIMERGY TX servers are flexible systems capable of using up to two processors and up to 20 hard disks. Tower to rack mounting kits are available for most TX systems to help you move to a consolidated rack infrastructure. TX servers have a tradition of setting record-breaking performance levels. So, whether you use them as tower or rack servers, for file, print or application purposes, you will benefit from record-breaking performance. PRIMERGY TX: a tower of strength.

PRIMERGY TX120 S2

The PRIMERGY TX120 S2 carries on the TX120 tradition of space-saving, energy-saving and low noise. It even improves on its innovative predecessor by achieving the same performance but consuming 25% less power.
The TX120 S2 key features, make it a perfect fit for use in small offices, retail premises or libraries. Sporting up to 4x 320 GB SATA or 146 GB 15 000 rpm SAS hard disk drives, it can easily meet most storage requirements, at the right price. Its up to 16GB of RAM easily enable it to run typical small business applications. On-board iRMC S2 remote management, makes the TX120 S2 a great choice for branch premises connected to a centralized infrastructure. The PRIMERGY TX120 S2: a compact server with great potential!

Features and Benefits

Main Features	Benefits
■ Its ultra-compact form factor, means that the PRIMERGY TX120 S2 fits everywhere, in either tower or desktop position.	■ Space-saving: ideal for office, retail and smaller environments
■ Thanks to the carefully crafted cooling concept, and the very low voltage Intel® Core™2 Duo processors, the TX120 S2 only consumes a min of 44W.	■ Energy-saving: lowers the total cost of ownership
■ The 27Db idle mode noise level, makes the TX120 S2 the perfect office server.	■ Whisper-quiet: for ergonomic working environments
■ With a choice of SAS or SATA hot-plug hard disks, or up to 16GB of RAM, the TX120 S2 has the power to cope with most challenges.	■ A powerful and expandable server
■ The iRMC S2 chip onboard makes remote management possible.	■ Ready for integration into company management networks

Technical details

Mainboard	
Mainboard type	D2785
Chipset	Intel® 5100
Processor quantity and type	1 x Intel® Core™2 Duo series
Processor	Intel® Core™2 Duo processor P8400 (2C, 2.26 GHz, SLC: 3 MB, TLC: -, Turbo: No, 1066 MHz, 25 W)
	Intel® Core™2 Duo processor T9400 (2C, 2.53 GHz, SLC: 6 MB, TLC: -, Turbo: No, 1066 MHz, 35 W)
Memory slots	4 (2 bank with 2 slots each)
Memory slot type	DIMM (DDR2)
Memory capacity (min. - max.)	1 GB - 16 GB
Memory protection	ECC
Memory notes	Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.
Memory modules	1 GB (1 module(s) 1 GB) DDR2, registered, ECC, 667 MHz, PC2-5300
	2 GB (1 module(s) 2 GB) DDR2, registered, ECC, 667 MHz, PC2-5300
	4 GB (1 module(s) 4 GB) DDR2, registered, ECC, 667 MHz, PC2-5300
Interfaces	
USB ports	8 x USB 2.0 (2x front, 5x rear, 1x internal)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x RS-232-C
LAN / Ethernet (RJ-45)	1
Service LAN (RJ45)	1 x dedicated Service LAN port for iRMC S3 (10/100 Mbit/s) Optional front service LAN port (10/100 Mbit/s)
Onboard or integrated Controller	
RAID Controller	4 port SATA with RAID 0/1 for HDDs
SATA Controller	Intel® ICH9R
SATA Controller type notes	4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux
LAN Controller	Intel® 82567-LM4 onboard, 10/100/1000 Mbit/s Ethernet, PXE-Boot via LAN from PXE server
Remote Management Controller	Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	optional TPM
Slots	
PCI-Express x8	3 x Low profile (1 slot can be used for modular RAID only)
PCI slots	1 x Low profile (PCI 32-bit / 33 MHz, 5 V)
Slot Notes	in SAS configuration 1x PCI-Express occupied by modular RAID controller; VMWare requires SAS RAID Controller
Drive bays	
Hard disk bays	4 x 2.5-inch hot-plug SAS/SATA
Accessible drive bays	1 x 3.5/1.6-inch for backup devices or HDD option 1 x 5.25/0.5-inch for CD-RW/DVD
Optional hard disk bays	2 x 2.5-inch hot-plug SAS/SATA (occupies 3.5/1.6-inch bay)
Operating panel	
Operating buttons	On/off switch
Status LEDs	Power (amber / green)

Operating Systems and Virtualization Software	
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2008 R2 Foundation Microsoft® Microsoft® Windows® Small Business Server 2008 Standard Microsoft® Microsoft® Windows® Small Business Server 2008 Premium Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 6 Red Hat® Enterprise Linux 5 Citrix® XenServer®
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421
Operating system notes	Support of other Linux derivatives on demand VMWare requires SAS RAID Controller.
Server Management	
Standard	PDA Prefailure Detection and Anaylsis ASR&R Automatic Server Recovery and Restart ServerView Suite: SV Installation Manager SV Operation Manager SV RAID Manager SV Update Management SV Power Management SV Agents Online update packages for BIOS, firmware drivers and ServerView Agents ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version) ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version) ServerView Remote Management (iRMC)
Option	ServerView Integration for Tivoli TEC®, Tivoli NetView, HP NNM and HP Operations Manager iRMC Advanced Pack Deployment Solution ServerView Deployment Manager
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.
Dimensions / Weight	
Floor-stand (W x D x H)	99 x 399 x 340 mm
Dimension notes	without feet
Weight	up to 10 kg
Weight notes	Actual weight may vary depending on configuration
Environmental	
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	27 dB(A) (idle) / 32 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	4,3 B (idle) / 4.7 B (operating)
Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Electrical values	
Power supply configuration	1x standard power supply
Standard power supply output	300 W
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	2.7 A / 1.1A (100 V / 240 V)
Active power (min. configuration)	44 W

Electrical values	
Active power (max. configuration)	120 W
Apparent power (max. configuration)	56-127 VA
Heat emission	432.0 kJ/h (409.5 BTU/h)

Compliance	
Germany	GS
Europe	CE Class A *
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Components

Hard disk drives
SSD SATA, 3 Gb/s, 64 GB, SLC, hot-plug, 2.5-inch, enterprise
SSD SATA, 3 Gb/s, 32 GB, SLC, hot-plug, 2.5-inch, enterprise
HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SATA, 3 Gb/s, 320 GB, 5400 rpm, hot-plug, 2.5-inch, economic
HDD SATA, 3 Gb/s, 160 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SATA, 3 Gb/s, 160 GB, 5400 rpm, hot-plug, 2.5-inch, economic
HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 3 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 3 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 3 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 3 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise

Tape Drives
DDS Gen5 3.5", 36 GB, 3 MB/s, half height, USB 2.0
RDX Drive, 80 GB, 160 GB, 320 GB, 500 GB, 25 MB/s, half height, USB 2.0

Optical drives
Blu-ray Disc™ Combo Drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I

SCSI / SAS Controller
SCSI Ctrl. 320 MB 1x int /1x ext
SAS Ctrl. 6 Gb 8 ports ext. PCIe Gen2 x8
SAS Ctrl. 3 Gb 4 ports int. / 4 ports ext.

RAID Controller	Integrated RAID 5/6 Ctrl., HDD SAS 6 Gb, Fujitsu , 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS2108)
	Integrated RAID 0/1 Ctrl., SAS/SATA 6 Gb, Fujitsu , 8 ports int. RAID level: 0, 1, 10, no BBU support (based on LSI SAS2008)
	Integrated RAID 0/1 Ctrl., SAS/SATA 3 Gb, 4 ports int. RAID level: 0, 1, 1E, no BBU support , for internal SAS tapes (based on LSI 1064e)
LAN Controller	Ethernet Ctrl. 1 x 1 Gb Intel® Gigabit CT Desktop Adapter
	Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PF Server Adapter
	Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PT Server Adapter
	Ethernet Ctrl. 2 x 1 Gb Fujitsu Eth Ctrl 2x1Gbit PCIe x4 D2735 Cu

Warranty	
Standard Warranty	1 year
Service level	On-site Service (depending on country)

Maintenance and Support Services - the perfect extension

Recommended Service	7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY TX120 S2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX120 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/Primergy

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

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